

City of Alexandria, Virginia

# Long Term Control Plan Update

Progress Update Meeting  
October 3, 2016



**ECO-CITY**  **ALEXANDRIA**

# Long Term Control Plan Update Overall Framework



# Benefits of the Plan

- \* Substantial infrastructure investment:
  - 1.6 MG storage tunnel
  - 3.0 MG storage tank
- \* Developed in coordination with our partner AlexRenew, keeping in mind the requirements in their permit to address overflows from the Hooffs Run Junction Chamber
- \* Broad community support
  - CSS Stakeholder Group      Civic Associations
  - Technical Review Panel      General Public
  - City Council
- \* Balances varied interests (including costs, impact to residents and businesses, environmental, complexity of construction, etc.)

# Long Term Control Plan Update Framework through 2035

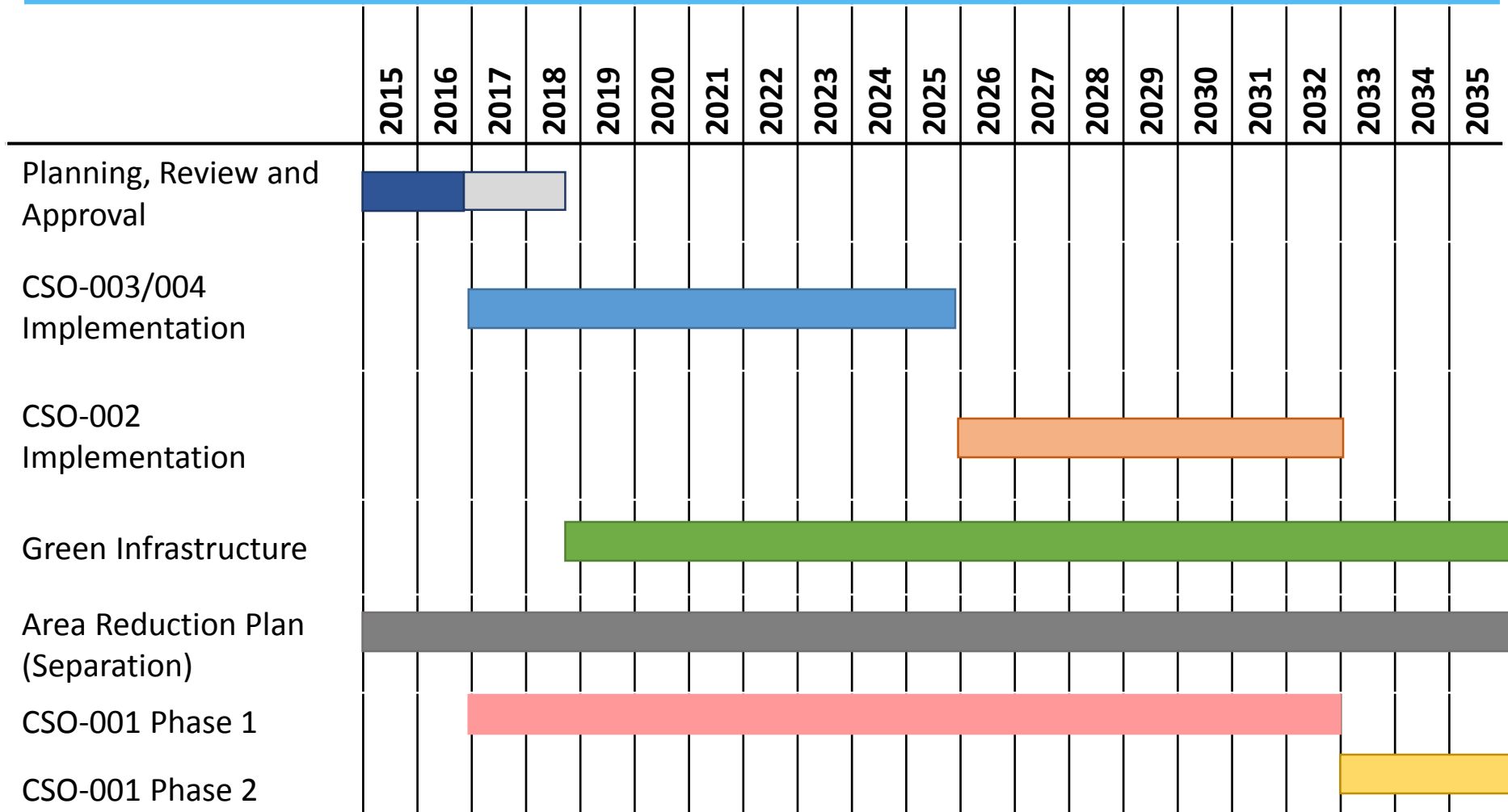
- \* CSO 003/004 tunnel to be implemented first (approximate timeframe 2017-2025)
- \* CSO 002 tank to be implemented following completion of CSO 003/004 tunnel (2026-2032)
- \* Green infrastructure and targeted sewer separation between 2018-2035, includes CSO-001 Phase I
- \* CSO-001 Phase 1: 2017-2032  
CSO-001 Phase 2: 2033-2035

## Preliminary Capital Costs

Project	Capital Cost <sup>1</sup>
CSO 003/004 Tunnel	\$80-120 million
CSO 002 Tank	\$35-53 million
Green Infrastructure	\$5-7.5 million
Targeted Sewer Separation	\$5-7.5 million
<b>TOTAL</b>	<b>\$125 - 188 million</b>

<sup>1</sup>Capital Costs in 2015 dollars

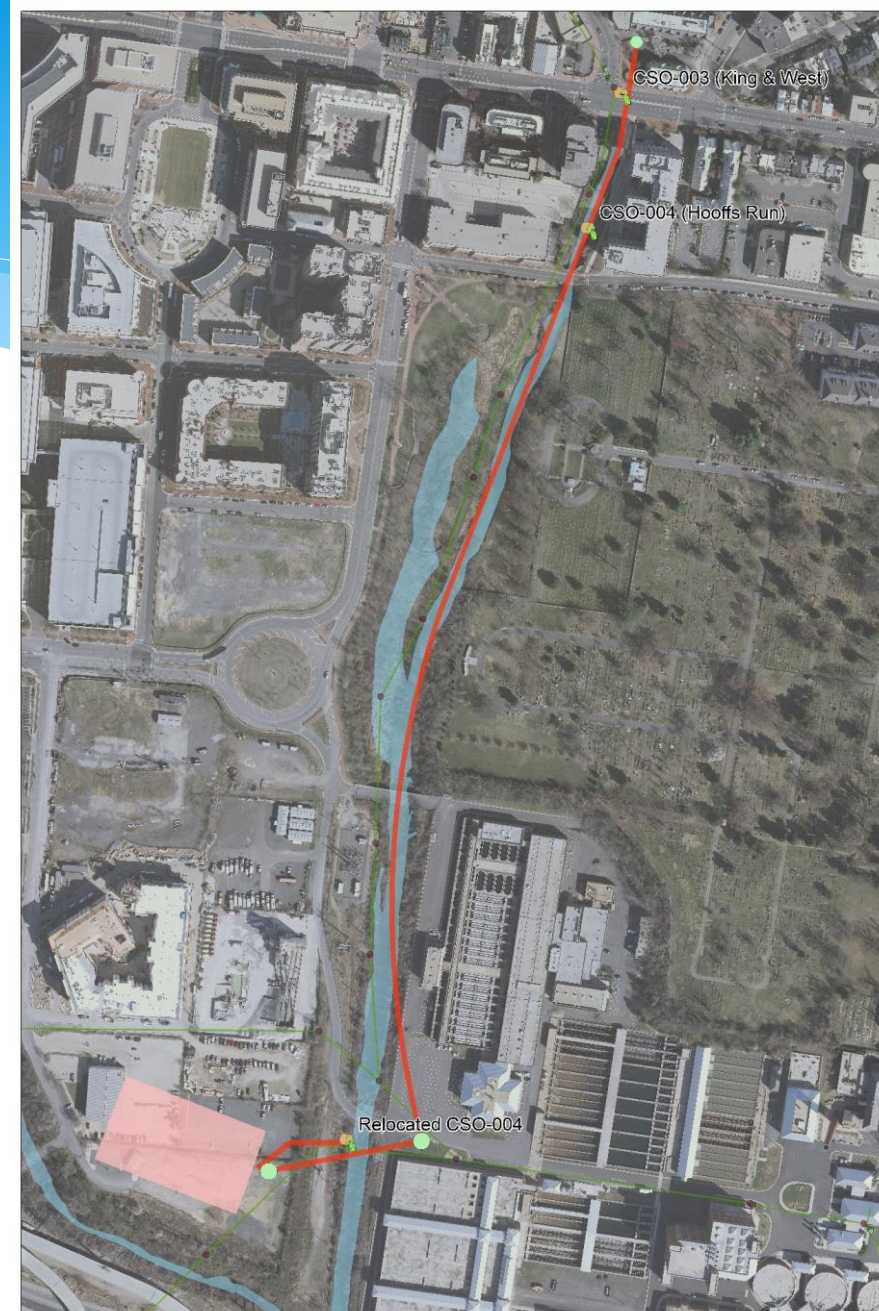
# Implementation Schedule



# CSO-003/004

## Primary Strategy

- \* 1.6 million gallon storage tunnel (10-ft diameter)
- \* Shafts range in diameter from 20-ft to 30-ft
- \* Shafts and tunnel range in depth from 60-ft to 100-ft
- \* 4-6 overflows per year in the typical year (preliminary engineering indicates 3)
- \* Assess goals using CSS modeling for typical year



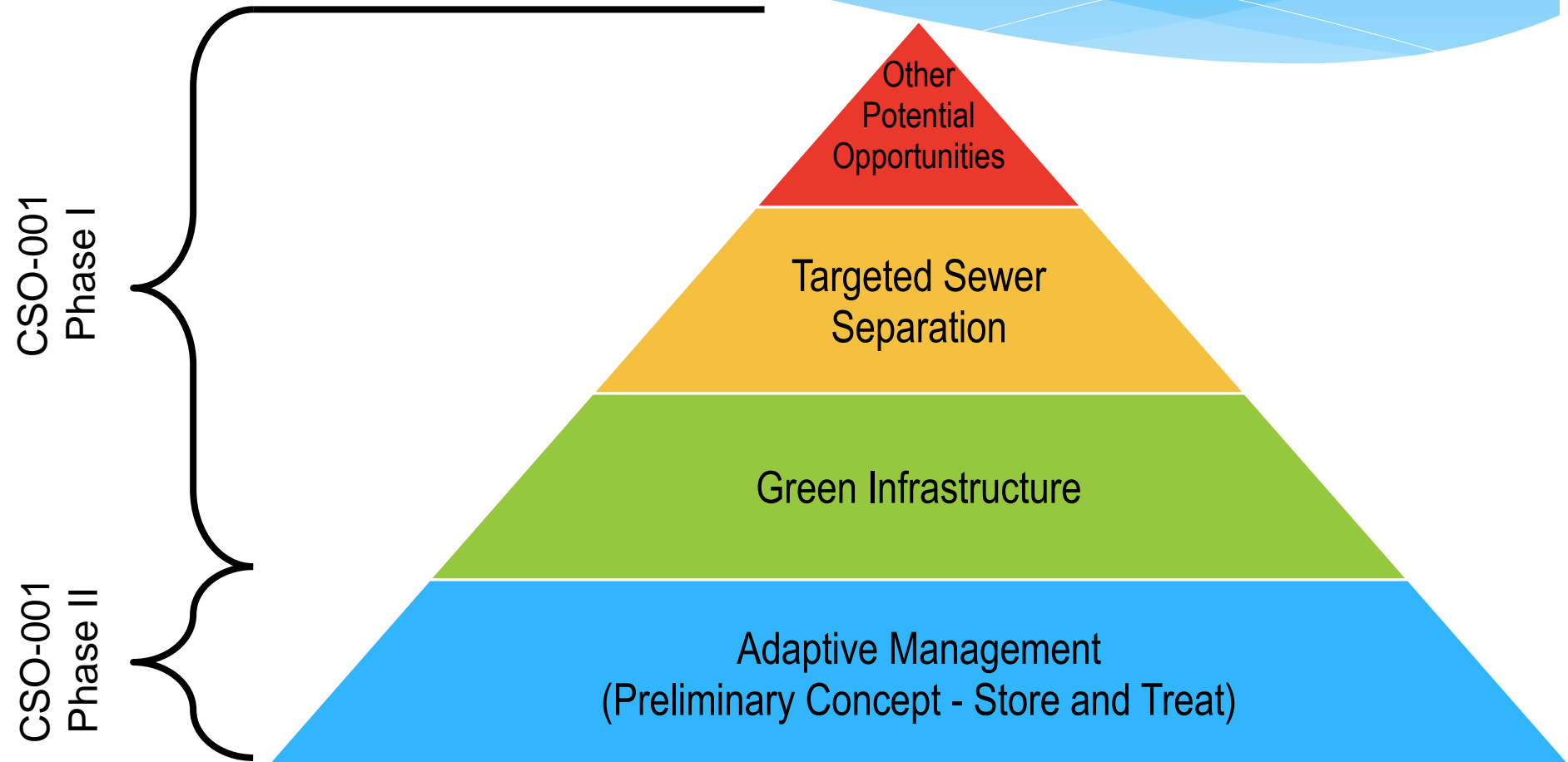


# CSO-002 Primary Strategy

- \* 3.0 million gallon storage tank
- \* 4-6 overflows per year in the typical year (preliminary engineering indicates 2)
- \* All tank alternatives remain available
- \* Reassess following construction of CSO-003/004 tunnel
- \* Assess goals using CSS modeling for typical year



# Proposed Framework for CSO-001





# Proposed Framework for CSO-001

## \* **CSO-001 Phase I**

- **Enhanced sewer separation and green infrastructure opportunities**
  - Coordinate with North Old Town Small Area Plan implementation

## \* **CSO-001 Phase II**

- Assess following CSO-001 Phase I and CSO-002/003/004 Projects
- Implement a plan consistent with the current regulatory requirements (potentially a store and treat strategy)

# Old Town North Small Area Plan / Eco-City District

## FUTURE POTENTIAL SITES

1. NRG-PRGS
2. Crowne Plaza Hotel
3. Foreign Car Service
4. Metro Stage
5. 801 N. Fairfax/209 Madison

## REQUESTS FOR PROPOSALS

6. WMATA Bus Barn
7. ARHA Properties

## PENDING APPLICATIONS

8. Robinson Terminal North
9. Canal Center - Public Improvements/Flood proofing
10. 800 - 802 N. Washington (Towne Motel)
11. Old Colony Inn
12. ABC/Giant

## APPROVED & UNDER CONSTRUCTION

13. 700 N. Washington
14. Health Department
15. Cotton Factory (The Mill)

## RECENTLY CONSTRUCTED

16. Harris Teeter/ The Kingsley
17. The Oronoco
18. Printers Row

